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AUG - 7 2009

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

BY: _____

☐ Conceptual Proposal ☒ Final Proposal

Date 8-1-09

Contract ID 090320-606

Job No. J611959

County St. Louis I-44

Original Bid Cost \$1,297,801.93

Contractor N.B. West Contracting Company

By Tim Schulte

Designed By Laurel Ann McKean

Phone 314-962-3145

VECP# 09-62 (to be completed by C.O.)

VECP ☒ or PDVECP ☐

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Job Special Provision - B. Work Zone Management-Item # 4.3 states the construction of Yarnell Road shall require a full weekend closure. The project plans show complete pavement removal and replacement of roadway and shoulders. We propose performing a 4 inch Mill/Fill of SP190C 64-22 asphalt in lieu of 10.5 inch Bituminous Pavement (Base Widening). An A2 shoulder, (various widths of 4'-6'), will also be constructed along the right side of Yarnell Road. Furnishing and Placing Rock Base material (18" thick) would be eliminated. Type 5 baserock would be reduced because of not removing the entire existing roadway. This area will still receive the 3/4" lift of UBAWS as specified on the plans, but not as part of this VE proposal. The traveling public will not have to detour this area since it will be built during normal construction hours using flaggers for traffic control.

2. Estimate of reduction in construction costs. \$27,696.73

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

The over all scope of this work should not affect future maintenance as full depth cores were cut and evaluated. The core results support the proposed changes in construction because the base materials as well as the existing asphalt that will be left in place after milling is in good condition.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

8-1-09
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

8-15-09
(date)

Work to be completed before 8-15-09
(effect)

6. Dates of any previous or concurrent submission of the same proposal.

4-30-09
(date and/or dates)

Additional Comments:

This section of Yarnell Road is used by tractor-trailer trucks due to the Truck Stop on the North side of I-44 where Yarnell Road runs. Also, Fabic Heavy Equipment has their business on an adjacent roadway with Yarnell being the main roadway way in and out of their business. The business and customers would be less affected by the VE proposal than by shutting down the roadway for an entire weekend. This VE saves MoDOT money, keeps Yarnell Road open, and construction work will be finished quicker.

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments:

Upon further review of the roadway core data, existing condition of the roadbed, and discussion among the Area Team Members, I support and recommend approval of this VE proposal. MoDOT will receive a good quality product while also reducing the construction impacts to the adjacent property owners and traveling public.


Submitted By Resident Engineer

8/7/09
Date

Comments: AS NOTED ABOVE.

- ☒ Approval
Recommended
- ☐ Rejection
Recommended



District Engineer

8-10-09

Date

Comments:

- ☐ Approval
Recommended
- ☐ Rejection
Recommended

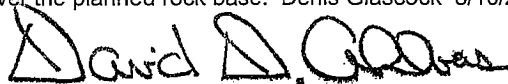
N/A

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments: It was confirmed that the anticipated performance of this section of roadway will be equal to that expected from paving placed over the planned rock base. Denis Glascock 8/10/2009

- ☒ Approval
- ☐ Rejection



State Construction and Materials Engineer

8-18-09

Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102



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44 OR VE

Eliminate the following items:

			MODOTs #
20 Furn rock base	93.24	\$14.00	\$1,305.36
30 Place rock base	93.24	\$14.00	\$1,305.36
40 Type 5 rock	1864.7	\$4.50	\$8,391.15
60 Base Widening	1065.1	\$62.75	\$66,184.03
			\$67,185.90

Add the following items:

	1846	\$3.25	\$5,999.50
	287.5	\$4.50	\$1,293.75
	287.5	\$18.00	\$5,175.00
Cont	317.9	\$82.23	\$26,140.92
	220	\$4.00	\$880.00
			\$39,489.17

Savings \$27,865.73

50/50 split \$13,848.37

Mike Manion

J6I1959 ✓
Rte. 44 (OR) ✓
St. Louis County ✓
Cont ID: 090320-606 ✓

VE # 1 Prices as submitted by N.B. West Contracting Co.

Item	Amount/Unit	Price per Unit	Total
Coldmilling	1,846 SY ✓	\$3.25/SY ✓	\$ 5,999.50 ✓
SP190 Asphalt	317.9 Tons ✓	\$82.23/Ton ✓	\$26,140.92 ✓
Tack Coat	225 Gal ✓	\$4.00/Gal ✓	\$ 880.00 ✓
A2 Shoulder	287.5 SY ✓	\$18.00/SY ✓	\$ 5175.00 ✓
Type 5 BR	287.5 SY ✓	\$ 4.50/SY ✓	<u>\$ 1,293.75</u> ✓ \$ 39,489.17 ✓

Plan Costs for Yarnell	=	\$67,185.90 ✓
Actual Costs	=	<u>\$39,489.17</u> ✓
Total Savings from VE	=	\$27,696.73 ✓

$\$27,676.73/2 = \$13,848.37$ Each @ 50/50 Split

Computed By: Frank Vance 8-4-09

Ck'd By: Bob St. Gemme 8-5-09

Bob St. Gemme

Frank Vance

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☒ Misc. - Base and Subgrade used in place

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

This VE involves an investigation of the existing base and subgrade materials, determining that they substantially match the planned 18" rock base, and can be used in place, saving on material and inconvenience to the public.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.